Complete Summary

TITLE

Acute myocardial infarction (AMI): thirty-day all-cause risk standardized readmission rate following AMI hospitalization.

SOURCE(S)

Specifications manual for national hospital inpatient quality measures, version 3.0b. Centers for Medicare & Medicaid Services (CMS), The Joint Commission; 2009 Oct. various p.

Measure Domain

PRIMARY MEASURE DOMAIN

Outcome

The validity of measures depends on how they are built. By examining the key building blocks of a measure, you can assess its validity for your purpose. For more information, visit the <u>Measure Validity</u> page.

SECONDARY MEASURE DOMAIN

Does not apply to this measure

Brief Abstract

DESCRIPTION

This measure* is used to assess hospital-specific 30-day all-cause risk-standardized readmission rate (RSRR) following hospitalization for acute myocardial infarction (AMI) among Medicare beneficiaries aged 65 years or older at the time of index hospitalization.

*This is a Centers for Medicare & Medicaid Services (CMS) only measure.

RATIONALE

Centers for Medicare & Medicaid Services (CMS) developed the acute myocardial infarction (AMI) 30-day readmission measure to complement the existing AMI process-of-care and mortality measures. Risk-standardized readmission rates (RSRRs) can provide important additional information about quality of care that is currently not captured by the process and mortality measures and is currently

unavailable to hospitals. Variation in readmission, after adjusting for case mix, may reflect differences in hospitals' general environments (such as coordination of care, patient safety policies, and staffing) or variation in care processes not measured in the current core measure set. Outcome measures can focus attention on a broader set of healthcare activities that affect patients' well being. Moreover, improving outcomes is the ultimate goal of quality improvement, and thus the inclusion of outcomes measures assists in attaining improvement goals.

Readmission of patients who were recently discharged after hospitalization with AMI represents an important, expensive, and often preventable adverse outcome. The risk of readmission can be modified by the quality and type of care provided to these patients. Improving readmission rates is the joint responsibility of hospitals and clinicians. Measuring readmission will create incentives to invest in interventions to improve hospital care, better assess the readiness of patients for discharge, and facilitate transitions to outpatient status. This measure is also responsive to the recent call by the Medicare Payment Advisory Commission (MedPAC) to develop readmission measures, with AMI highlighted as one of seven conditions that account for nearly 30% of potentially preventable readmissions in the 15-day window after initial hospital discharge (MedPAC, 2007).

PRIMARY CLINICAL COMPONENT

Acute myocardial infarction (AMI); 30-day all-cause readmission rate

DENOMINATOR DESCRIPTION

Admissions for Medicare fee-for-service beneficiaries aged greater than or equal to 65 years with a principal discharge diagnosis of acute myocardial infarction (AMI)* and with a complete claims history for 12 months prior to admission (see the related "Denominator Inclusions/Exclusions" field in the Complete Summary)

The hospital-specific risk-standardized readmission rate (RSRR) is calculated as the ratio of predicted to expected readmissions, multiplied by the national unadjusted rate. The "denominator" of the ratio component is the expected number of readmissions for each hospital within 30 days given the hospital's case mix.

*International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) codes that define the patient cohort:

- 410.00: AMI (anterolateral wall) episode of care unspecified
- 410.01: AMI (anterolateral wall) initial episode of care
- 410.10: AMI (other anterior wall) episode of care unspecified
- 410.11: AMI (other anterior wall) initial episode of care
- 410.20: AMI (inferolateral wall) episode of care unspecified
- 410.21: AMI (inferolateral wall) initial episode of care
- 410.30: AMI (inferoposterior wall) episode of care unspecified
- 410.31: AMI (inferoposterior wall) initial episode of care
- 410.40: AMI (other inferior wall) episode of care unspecified
- 410.41: AMI (other inferior wall) initial episode of care
- 410.50: AMI (other lateral wall) episode of care unspecified
- 410.51: AMI (other lateral wall) initial episode of care

- 410.60: AMI (true posterior wall) episode of care unspecified
- 410.61: AMI (true posterior wall) initial episode of care
- 410.70: AMI (subendocardial) episode of care unspecified
- 410.71: AMI (subendocardial) initial episode of care
- 410.80: AMI (other specified site) episode of care unspecified
- 410.81: AMI (other specified site) initial episode of care
- 410.90: AMI (unspecified site) episode of care unspecified
- 410.91: AMI (unspecified site) initial episode of care

Note: We do not include 410.x2 (AMI, subsequent episode of care).

Note: Hierarchical logistic regression modeling is used to calculate a hospital-specific RSRR. This rate is calculated as the ratio of "predicted" to "expected" readmissions, multiplied by the national unadjusted rate. For each hospital, the "numerator" of the ratio component of the RSRR is the predicted number of readmissions within 30 days given the hospital's performance with its observed case mix, and the "denominator" is the expected number of readmissions given the hospital's case mix. By convention, we use the term "predicted" here to describe the numerator result, which is calculated using the hospital-specific intercept term. We use "expected" for the denominator, which is calculated using the average intercept term. See the Measures for more details.

NUMERATOR DESCRIPTION

The hospital-specific risk-standardized readmission rate (RSRR) is calculated as the ratio of predicted to expected readmissions, multiplied by the national unadjusted rate. The "numerator" of the ratio component is the predicted number of readmissions for each hospital within 30 days given the hospital's performance with its observed case mix.

Note: This outcome measure does not have a traditional numerator and denominator like a core process measure (e.g., percentage of adult patients with diabetes aged 18-75 years receiving one or more hemoglobin A1c tests per year); thus, we are using this field to define our statistically-adjusted outcome measure.

Hierarchical logistic regression modeling is used to calculate a hospital-specific RSRR. This rate is calculated as the ratio of "predicted" to "expected" readmissions, multiplied by the national unadjusted rate. For each hospital, the "numerator" of the ratio component of the RSRR is the predicted number of readmissions within 30 days given the hospital's performance with its observed case mix, and the "denominator" is the expected number of readmissions given the hospital's case mix. By convention, we use the term "predicted" here to describe the numerator result, which is calculated using the hospital-specific intercept term. We use "expected" for the denominator, which is calculated using the average intercept term.

More specifically, the expected number of readmissions in each hospital is estimated using its patient mix and the average hospital-specific intercept. The predicted number of readmissions in each hospital is estimated given the same patient mix but an estimated hospital-specific intercept. Operationally, the expected number of readmissions for each hospital is obtained by regressing the risk factors on the readmission outcome using all hospitals in our sample, applying the subsequent estimated regression coefficients to the patient characteristics observed in the hospital, adding the average of the hospital-specific intercepts, transforming, and then summing over all patients in the hospital to get a value. This is a form of indirect standardization. The predicted hospital outcome is the number of readmissions in the "specific" hospital estimated given its performance and case mix. Operationally, this is accomplished by estimating a hospital-specific intercept that herein represents baseline readmission risk within the hospital, applying the estimated regression coefficients to the patient characteristics in the hospital, transforming, and then summing over all patients in the hospital to get a value. To assess hospital performance in any reporting period, we re-estimate the model coefficients using the years of data in that period.

See the "Description of Allowance for Patient Factors" field in the Complete Summary for risk adjustment details. See the 2009 Measures Maintenance Technical Report: Acute Myocardial Infarction, Heart Failure, and Penumonia 30-Day Risk-standardized Readmission Measures for more details.

Evidence Supporting the Measure

EVIDENCE SUPPORTING THE CRITERION OF QUALITY

 One or more research studies published in a National Library of Medicine (NLM) indexed, peer-reviewed journal

Evidence Supporting Need for the Measure

NEED FOR THE MEASURE

Variation in quality for the performance measured

EVIDENCE SUPPORTING NEED FOR THE MEASURE

Specifications manual for national hospital inpatient quality measures, version 3.0b. Centers for Medicare & Medicaid Services (CMS), The Joint Commission; 2009 Oct. various p.

State of Use of the Measure

STATE OF USE

Current routine use

CURRENT USE

Collaborative inter-organizational quality improvement External oversight/Medicare Internal quality improvement National reporting

Application of Measure in its Current Use

CARE SETTING

Hospitals

PROFESSIONALS RESPONSIBLE FOR HEALTH CARE

Measure is not provider specific

LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED

Single Health Care Delivery Organizations

TARGET POPULATION AGE

Age greater than or equal to 65 years

TARGET POPULATION GENDER

Either male or female

STRATIFICATION BY VULNERABLE POPULATIONS

Unspecified

Characteristics of the Primary Clinical Component

INCIDENCE/PREVALENCE

Unspecified

ASSOCIATION WITH VULNERABLE POPULATIONS

Unspecified

BURDEN OF ILLNESS

Acute myocardial infarction (AMI) is among the most common principal hospital discharge diagnoses among Medicare beneficiaries, and, in 2005, it was the fourth most expensive condition billed to Medicare (Andrews and Elixhauser, 2007). Readmission rates following discharge for AMI are high. For example, rates of all-cause readmission at 30 days have been found to range from 11.3% (Barbagelata et al., 2004) to 28.1% (Jonas et al., 1999).

Readmission rates are influenced by the quality of inpatient and outpatient care, the availability and use of effective disease management programs, and the bed capacity of the local health care system. Some of the variation in readmissions may be attributable to delivery system characteristics (Fisher et al., 1994). Also, interventions during and after a hospitalization can be effective in reducing readmission rates in geriatric populations generally (Benbassat and Taragin, 2000; Naylor et al., 1999; Coleman et al., 2006) and for AMI patients specifically (Carroll et al., 2007; Young et al., 2003; Bondestam et al., 1995; Ades et al., 1992). Moreover, such interventions can be cost saving (Coleman et al., 2006; Naylor et al., 1999; Ades et al., 1992). Tracking readmissions also emphasizes improvement in care transitions and care coordination. Although discharge planning is required by Medicare as a condition of participation for hospitals, transitional care focuses more broadly on "hand-offs" of care from one setting to another, and may have implications for quality and costs (Coleman, 2005).

The Medicare Payment Advisory Commission (MedPAC) has called for hospital-specific public reporting of readmission rates, identifying AMI as one of seven

conditions that account for nearly 30% of potentially preventable readmissions in the 15-day window after initial hospital discharge (MedPAC, 2007). MedPAC finds that readmissions are common, costly, and often preventable. Based on 2005 Medicare data, MedPAC estimates that about 13.4% of Medicare AMI admissions were followed by a potentially preventable readmission within 15 days, accounting for nearly 21,000 admissions at a cost of \$136 million.

EVIDENCE FOR BURDEN OF ILLNESS

Ades PA, Huang D, Weaver SO. Cardiac rehabilitation participation predicts lower rehospitalization costs. Am Heart J1992 Apr;123(4 Pt 1):916-21. PubMed

Andrews RM, Elixhauser A. The national hospital bill: growth trends and 2005 update on the most expensive conditions by payer. Rockville (MD): Agency for Healthcare Research and Quality (AHRQ); 2007 Dec. (HCUP statistical brief; no. 42).

Barbagelata A, Califf RM, Sgarbossa EB, Knight D, Mark DB, Granger CB, Armstrong PW, Elizari M, Birnbaum Y, Grinfeld LR, Ohman EM, Wagner GS, GUSTO-1 Investigators. Prognostic value of predischarge electrocardiographic measurement of infarct size after thrombolysis: insights from GUSTO I Economics and Quality of Life substudy. Am Heart J2004 Nov;148(5):795-802. PubMed

Benbassat J, Taragin M. Hospital readmissions as a measure of quality of health care: advantages and limitations. Arch Intern Med2000 Apr 24;160(8):1074-81. PubMed

Bondestam E, Breikss A, Hartford M. Effects of early rehabilitation on consumption of medical care during the first year after acute myocardial infarction in patients > or = 65 years of age. Am J Cardiol1995 Apr 15;75(12):767-71. PubMed

Carroll DL, Rankin SH, Cooper BA. The effects of a collaborative peer advisor/advanced practice nurse intervention: cardiac rehabilitation participation and rehospitalization in older adults after a cardiac event. J Cardiovasc Nurs2007 Jul-Aug;22(4):313-9. PubMed

Coleman EA, Parry C, Chalmers S, Min SJ. The care transitions intervention: results of a randomized controlled trial. Arch Intern Med2006 Sep 25;166(17):1822-8. PubMed

Coleman EA. Background paper on transitional care performance measurement. Appendix I. In: Institute of Medicine, performance measurement: accelerating improvement. Washington (DC): National Academy Press; 2005.

Fisher ES, Wennberg JE, Stukel TA, Sharp SM. Hospital readmission rates for cohorts of Medicare beneficiaries in Boston and New Haven. N Engl J Med1994 Oct 13;331(15):989-95. PubMed

Jonas M, Grossman E, Boyko V, Behar S, Hod H, Reicher-Reiss H. Relation of early and one-year outcome after acute myocardial infarction to systemic arterial blood pressure on admission. Am J Cardiol1999 Jul 15;84(2):162-5. <u>PubMed</u>

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Young W, Rewa G, Goodman SG, Jaglal SB, Cash L, Lefkowitz C, Coyte PC. Evaluation of a community-based inner-city disease management program for postmyocardial infarction patients: a randomized controlled trial. CMAJ2003 Oct 28;169(9):905-10. PubMed

UTILIZATION

See the "Burden of Illness" field.

COSTS

See the "Burden of Illness" field.

Institute of Medicine National Healthcare Quality Report Categories

IOM CARE NEED

Getting Better

IOM DOMAIN

Effectiveness

Data Collection for the Measure

CASE FINDING

Users of care only

DESCRIPTION OF CASE FINDING

Admissions for Medicare fee-for-service beneficiaries aged greater than or equal to 65 years with a principal discharge diagnosis of acute myocardial infarction (AMI) and with a complete claims history for 12 months prior to admission (see the "Denominator Inclusions/Exclusions" field for a list of all International Classification of Diseases, Ninth Revision, Clinical Modification [ICD-9-CM] codes for AMI)

DENOMINATOR SAMPLING FRAME

Patients associated with provider

DENOMINATOR INCLUSIONS/EXCLUSIONS

Inclusions

Admissions for Medicare fee-for-service beneficiaries aged greater than or equal to 65 years with a principal discharge diagnosis of acute myocardial infarction (AMI)* and with a complete claims history for 12 months prior to admission

*International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) codes that define the patient cohort:

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- 410.91: AMI (unspecified site) initial episode of care

Note: We do not include 410.x2 (AMI, subsequent episode of care).

Exclusions

Cohort exclusions (excluded admissions):

- Admissions for patients with an in-hospital death are excluded because they are not eligible for readmission.
- Admissions for patients having a principal diagnosis of AMI during the index hospitalization and subsequently transferred to another acute care facility are excluded because we are focusing on discharges to non-acute care settings.
- Admissions are excluded for patients who are discharged alive on the same day that they are admitted because these patients are unlikely to have had an AMI
- Admissions for patients who are discharged against medical advice (AMA) are excluded because providers did not have the opportunity to deliver full care and prepare the patient for discharge.
- Admissions for patients without at least 30 days post-discharge enrollment in fee-for-service Medicare are excluded because the 30-day readmission outcome cannot be assessed in this group.
- If a patient has one or more additional AMI admissions within 30 days of discharge from an index AMI admission, we do not consider the additional

AMI admissions as index admissions (they are considered as readmissions). Thus, any AMI admission is either an index admission or a readmission, but not both.

Admissions not counted as readmissions:

- Some AMI patients have planned readmissions for revascularization procedures for example, to perform percutaneous transluminal coronary angioplasty (PTCA) on a second vessel or a second location in the same vessel, or to perform coronary artery bypass graft (CABG) surgery after AMI and a period of recovery outside the hospital. Because admissions for PTCA and CABG may be staged or scheduled readmissions, we do not count as readmissions those admissions after discharge that include PTCA or CABG procedures unless the principal discharge diagnosis for the readmission is one of the following diagnoses (which are not consistent with a scheduled readmission): heart failure (HF), AMI, unstable angina, arrhythmia, and cardiac arrest (i.e., readmissions with these diagnoses and a PTCA or CABG procedure are counted as readmissions).
- ICD-9-CM codes associated with PTCA and CABG revascularization procedures:
 - PTCA: 00.66, 36.01, 36.02, 36.05, 36.06, 36.07
 - CABG: 36.10-36.16
- ICD-9-CM codes associated with HF, AMI, unstable angina, arrhythmia, and cardiac arrest:
 - HF: 402.01, 402.11, 402.91, 404.01, 404.03, 404.11, 404.13, 404.91, 404.93, 428.xx
 - AMI: 410.xx, except 410.x2 (AMI, subsequent episode of care)
 - Unstable angina: 411.xx
 - Arrhythmia: 427.xx, except 427.5
 - Cardiac arrest: 427.5

RELATIONSHIP OF DENOMINATOR TO NUMERATOR

All cases in the denominator are equally eligible to appear in the numerator

DENOMINATOR (INDEX) EVENT

Clinical Condition Institutionalization

DENOMINATOR TIME WINDOW

Time window brackets index event

NUMERATOR INCLUSIONS/EXCLUSIONS

Inclusions

The hospital-specific risk-standardized readmission rate (RSRR) is calculated as the ratio of predicted to expected readmissions, multiplied by the national unadjusted rate. The "numerator" of the ratio component is the predicted number

of readmissions for each hospital within 30 days given the hospital's performance with its observed case mix.

Note: This outcome measure does not have a traditional numerator and denominator like a core process measure (e.g., percentage of adult patients with diabetes aged 18-75 years receiving one or more hemoglobin A1c tests per year); thus, we are using this field to define our statistically-adjusted outcome measure.

Hierarchical logistic regression modeling is used to calculate a hospital-specific RSRR. This rate is calculated as the ratio of "predicted" to "expected" readmissions, multiplied by the national unadjusted rate. For each hospital, the "numerator" of the ratio component of the RSRR is the predicted number of readmissions within 30 days given the hospital's performance with its observed case mix, and the "denominator" is the expected number of readmissions given the hospital's case mix. By convention, we use the term "predicted" here to describe the numerator result, which is calculated using the hospital-specific intercept term. We use "expected" for the denominator, which is calculated using the average intercept term.

More specifically, the expected number of readmissions in each hospital is estimated using its patient mix and the average hospital-specific intercept. The predicted number of readmissions in each hospital is estimated given the same patient mix but an estimated hospital-specific intercept. Operationally, the expected number of readmissions for each hospital is obtained by regressing the risk factors on the readmission outcome using all hospitals in our sample, applying the subsequent estimated regression coefficients to the patient characteristics observed in the hospital, adding the average of the hospital-specific intercepts, transforming, and then summing over all patients in the hospital to get a value. This is a form of indirect standardization. The predicted hospital outcome is the number of readmissions in the "specific" hospital estimated given its performance and case mix. Operationally, this is accomplished by estimating a hospital-specific intercept that herein represents baseline readmission risk within the hospital, applying the estimated regression coefficients to the patient characteristics in the hospital, transforming, and then summing over all patients in the hospital to get a value. To assess hospital performance in any reporting period, we re-estimate the model coefficients using the years of data in that period.

See the "Description of Allowance for Patient Factors" field in the Complete Summary for risk adjustment details. See the 2009 Measures Maintenance Technical Report: Acute Myocardial Infarction, Heart Failure, and Penumonia 30-Day Risk-standardized Readmission Measures for more details.

Exclusions

Unspecified

MEASURE RESULTS UNDER CONTROL OF HEALTH CARE PROFESSIONALS, ORGANIZATIONS AND/OR POLICYMAKERS

The measure results are somewhat or substantially under the control of the health care professionals, organizations and/or policymakers to whom the measure applies.

NUMERATOR TIME WINDOW

Fixed time period

DATA SOURCE

Administrative data

LEVEL OF DETERMINATION OF QUALITY

Not Individual Case

OUTCOME TYPE

Adverse Outcome

PRE-EXISTING INSTRUMENT USED

Unspecified

Computation of the Measure

SCORING

Rate

INTERPRETATION OF SCORE

Better quality is associated with a lower score

ALLOWANCE FOR PATIENT FACTORS

Risk adjustment devised specifically for this measure/condition

DESCRIPTION OF ALLOWANCE FOR PATIENT FACTORS

The approach to risk adjustment is tailored to and appropriate for a publicly reported outcome measure, as articulated in the American Heart Association (AHA) Scientific Statement, "Standards for Statistical Models Used for Public Reporting of Health Outcomes" (Krumholz et al., 2006).

A hierarchical logistic regression model was developed to estimate the log-odds of readmission within 30 days of an acute myocardial infarction (AMI) index admission as a function of patient demographic and clinical characteristics. The model includes a random hospital-specific intercept to account for within-hospital correlation of the observed outcomes. This assumes that underlying differences in quality among the hospitals being evaluated lead to systematic differences in outcomes.

Candidate and Final Variables: Candidate variables were patient-level risk-adjustors that are expected to be predictive of readmission, based on empirical analysis, prior literature, and clinical judgment, including demographic factors (age, sex) and indicators of comorbidity and disease severity. Refer to the original measure documentation for the final set of risk-adjustment variables included.

The final set of risk-adjustment variables included:

Demographic • Age-65 (years above 65, continuous)

	Male
Comorbidity	 Diabetes mellitus (DM) and DM complications Iron deficiency and other/unspecified anemias and blood disease Congestive heart failure Valvular and rheumatic heart disease Chronic obstructive pulmonary disease (COPD) End-stage renal disease or dialysis Other urinary tract disorders Arrhythmias Pneumonia Renal failure Vascular or circulatory disease Disorders of fluid/electrolyte/acid-base Coronary atherosclerosis/other chronic ischemic heart disease History of infection Cerebrovascular disease Metastatic cancer and acute leukemia Cancer Decubitus ulcer or chronic skin ulcer Dementia and senility Angina pectoris/old myocardial infarction Stroke Asthma Acute coronary syndrome Hemiplegia, paraplegia, paralysis, functional disability Protein-calorie malnutrition Anterior myocardial infarction Other location of myocardial infarction History of coronary artery bypass grafting (CABG) surgery History of percutaneous transluminal coronary angioplasty (PTCA)

Full details of the development of the risk-standardization model for this measure are available at www.qualitynet.org.

STANDARD OF COMPARISON

External comparison at a point in time External comparison of time trends Internal time comparison

Evaluation of Measure Properties

EXTENT OF MEASURE TESTING

To evaluate the performance of the model used for 2009 reporting, we fit the revised model to three single-year datasets (2005, 2006, and 2007) and to the combined three-year 2005-2007 calendar year dataset. We re-estimated the

model variable coefficients and examined the model performance in each of these datasets. We also examined trends in the frequency of patient risk factors.

Specifically, we:

- Assessed generalized linear models (GLM) performance in terms of discriminant and predictive ability and overall fit for each of the single-year datasets (2005, 2006, and 2007) and for the combined 2005-2007 calendar year dataset.
- Fitted hierarchical generalized linear models (HGLMs) for the same datasets and compared both fixed-effect estimates and hospital-level covariance estimates across the different time periods.

We additionally assessed the performance of the measure using preliminary data for admissions with discharges between July 1, 2005, and June 30, 2008. The results were substantively similar to those for the 2005-2007 calendar year dataset (data not shown).

We computed two summary statistics for assessing model performance: the adjusted R2, which indicates the percentage of the variation in the outcome explained by the model variables, and the area under the receiver operating characteristic (ROC) curve (c-statistic), which is an indicator of the model's discriminant ability or ability to correctly classify those who are and are not readmitted within 30 days (values range from 0.5 meaning no better than chance to 1.0 meaning perfect discrimination). The adjusted R2 was approximately 5% across the study period. The area under the ROC curve (c-statistic) remained constant between 0.62 and 0.63. For the model using the 2005-2007 calendar year dataset, the observed readmission rate was 8.4% among patients in the lowest predicted decile and 33.3% among patients in the highest predicted decile, a range of 24.9%.

Examining the overall distribution of the risk-standardized readmission rate (RSRR) based on the 2005-2007 calendar year dataset, the 25th and 75th percentiles were 19.5% and 20.5%, respectively. The odds of all-cause readmission if treated at a hospital one standard deviation above the national average was 1.35 times higher than the odds of all-cause readmission if treated at a hospital one standard deviation below the national average. If there were no systematic differences between hospitals, the between-hospital variance would be zero and the odds ratio would be 1.0.

EVIDENCE FOR RELIABILITY/VALIDITY TESTING

Desai MM, Lin Z, Schreiner GC, Wang Y, Grady JN, Duffy CO, Grosso LM, Turkmani D, Wang Y, Gao J, Normand SL, Drye EE, Krumholz HM. 2009 Measures maintenance technical report: acute myocardial infarction, heart failure, and pneumonia 30-day risk-standardized readmission measures. Baltimore (MD): Centers for Medicare & Medicaid Services; 2009 Apr 7. 46 p.

Identifying Information

ORIGINAL TITLE

READM-30-AMI: Thirty-day all-cause risk standardized readmission rate following acute myocardial infarction (AMI) hospitalization.

MEASURE COLLECTION

National Hospital Inpatient Quality Measures

MEASURE SET NAME

CMS Readmission Measures

SUBMITTER

Centers for Medicare & Medicaid Services Joint Commission, The

DEVELOPER

Centers for Medicare & Medicaid Services/The Joint Commission Yale-New Haven Health Systems Corporation/Center for Outcomes Research and Evaluation under contract to Centers for Medicare & Medicaid Services

FUNDING SOURCE(S)

Centers for Medicare & Medicaid Services (CMS)

COMPOSITION OF THE GROUP THAT DEVELOPED THE MEASURE

This measure was developed by a team of clinical and statistical experts from Yale University/Yale-New Haven Hospital Center for Outcomes Research and Evaluation (Yale-CORE) and Harvard University, through a Centers for Medicare & Medicaid Services (CMS) contract with the Colorado Foundation for Medicare Care (CFMC).

FINANCIAL DISCLOSURES/OTHER POTENTIAL CONFLICTS OF INTEREST

Unspecified

ENDORSER

National Quality Forum

INCLUDED IN

Hospital Compare Hospital Quality Alliance

ADAPTATION

Measure was not adapted from another source.

RELEASE DATE

2009 Oct

MEASURE STATUS

This is the current release of the measure.

SOURCE(S)

Specifications manual for national hospital inpatient quality measures, version 3.0b. Centers for Medicare & Medicaid Services (CMS), The Joint Commission; 2009 Oct. various p.

MEASURE AVAILABILITY

The individual measure, "READM-30-AMI: Thirty-day All-cause Risk Standardized Readmission Rate Following Acute Myocardial Infarction (AMI) Hospitalization," is published in "Specifications Manual for National Hospital Inpatient Quality Measures." This document is available from The Joint Commission Web site. Information is also available from the QualityNet Web site and the Hospital Compare Web site. Check The Joint Commission Web site and QualityNet Web site regularly for the most recent version of the specifications manual and for the applicable dates of discharge.

NQMC STATUS

This NQMC summary was completed by ECRI Institute on July 13, 2009. The information was verified by the measure developer on December 29, 2009.

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